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Coding Boot Camp
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JS

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Session : Core12
Working with StringGrids

About Aubrey Pule Khoza

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We empower people

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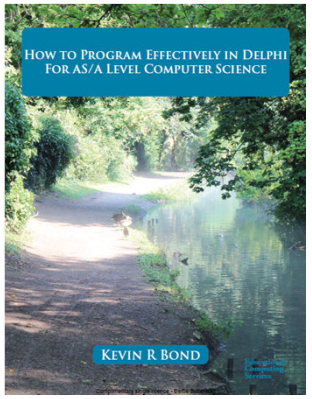
- Lecturer at the department of Computer Science at the Tshwane University of Technology in South Africa
- Passionate about Delphi since Borland Delphi 6
- Software Engineer in various industry projects
- Lives in Pretoria (South Africa)
- Cricket Fan

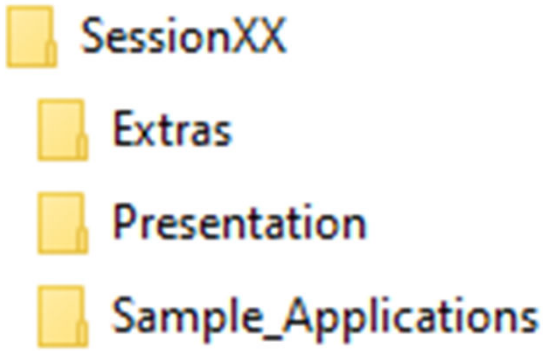
Session outline

- Understanding tabular data
- Accessing data records from files
- StringGrid Component
- StringGrid Properties
- MusicDelphi Application

Textbook reference chapters



Chapters 14 to 16


SessionXX
Extras
Presentation
Sample_Applications

Two Dimensional Arrays

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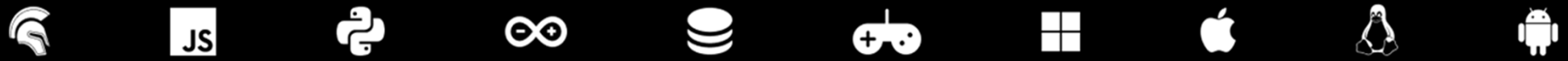
As with one-dimensional arrays, when initializing a multidimensional array the array must be of a type constant.

Note that when we initialized the array that each rows values is within brackets.

```
Const
        MyArray: Array[1..4,1..4] of double = ((12.5,23.6,78.9,100),
                                               (90.5,78.6,45.9,200),
                                               (78.5,56.6,90.9,300),
                                              (23.5,34.6,1.9,300));
```



Text File Procedures and Functions

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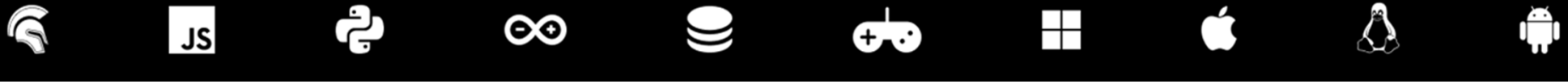
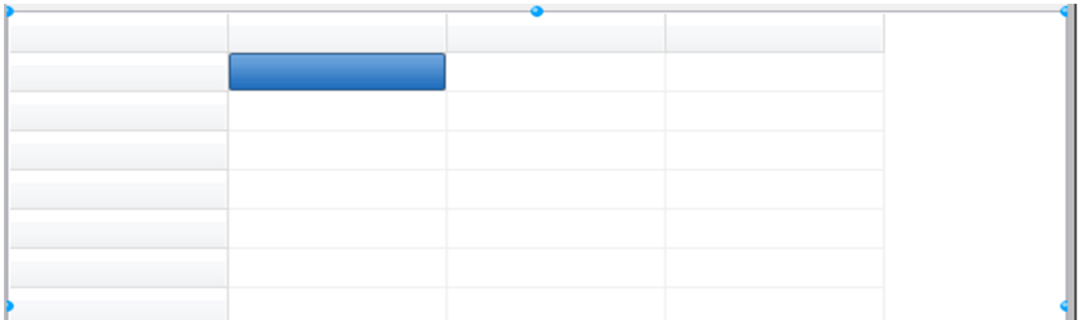
- We are going to take a look at the most important procedures and functions for text files. They are:
- AssignFile
- Append
- Rewrite
- Reset
- Write
- WriteLn
- Read
- ReadLn
- CloseFile
- Eof
- FileExists

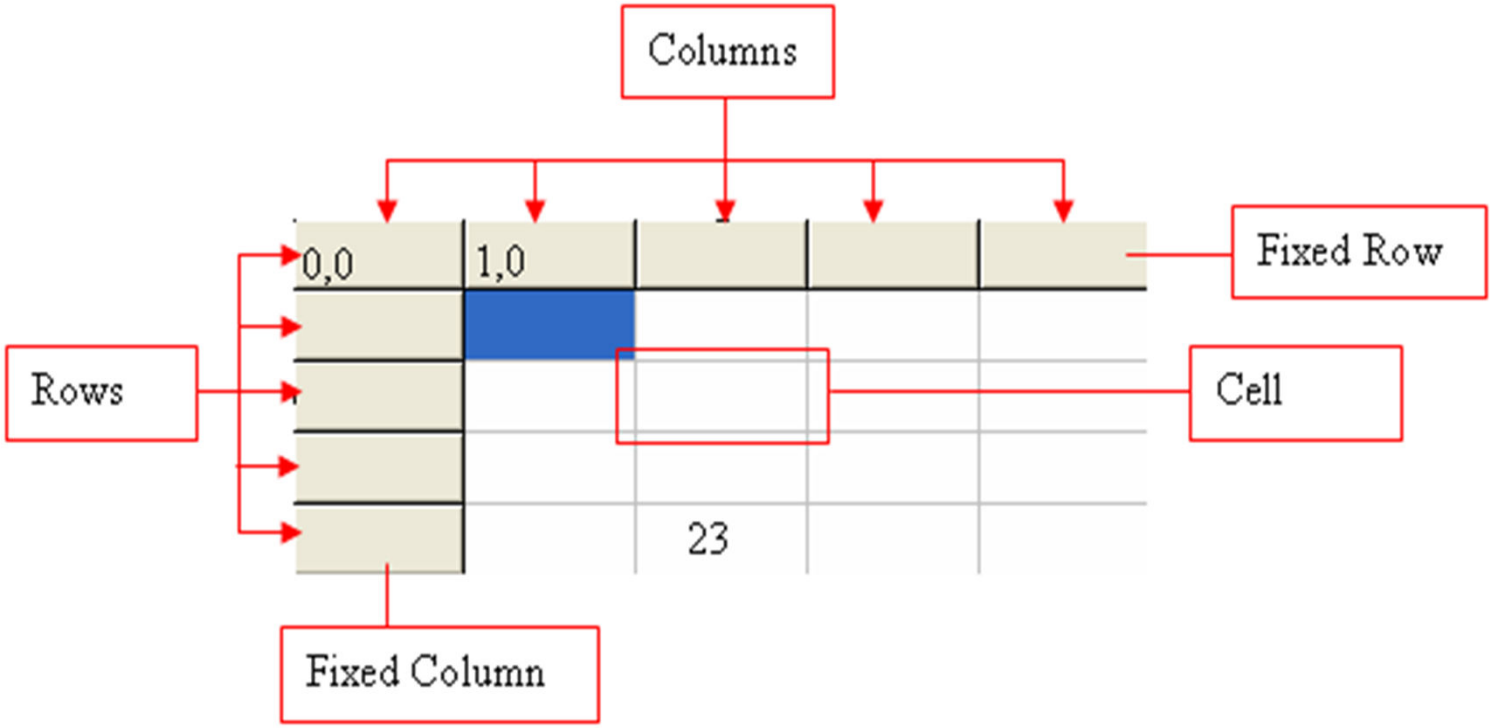


What is a StringGrid Component

- The StringGrid Component is a visual representation of a grid that consists of rows and columns.
- The StringGrid can also be seen as a visual version of a two dimensional array.
- The StringGrid Component can be found underneath the Additional Tab on the Component Pallete.
- One would make use of the StringGrid Component to display a series of values by category.



What is a StringGrid Component



StringGrid Properties

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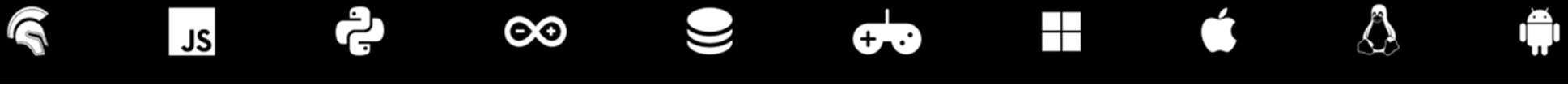
- We are going to take a look at the following Properties in the Object Inspector:

- ColCount
- RowCount
- DefaultColWidth
- DefaultRowHeight
- FixedColor
- Color
- FixedCol
- FixedRow
- GridLineWidth
- ScrollBars



Text File for Music delphi

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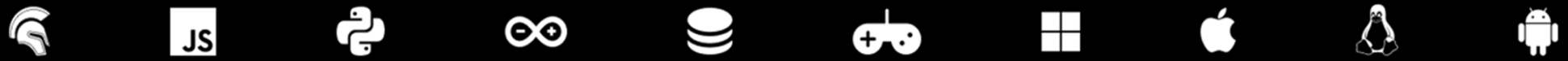
artists.txt

```
1  Rob Steward,1967,119338,14348
2  Beyonce,2003,32506,117171
3  John Legend,1998,14364,2636
4  ed Sheeran,2005,10939,4423
5  Black Eyed Peas,1995,31706,6804
6  Britney Spears,1998,30112,17599
7  Jay Z,1988,30370,8037
```



String Grid for Music Delphi

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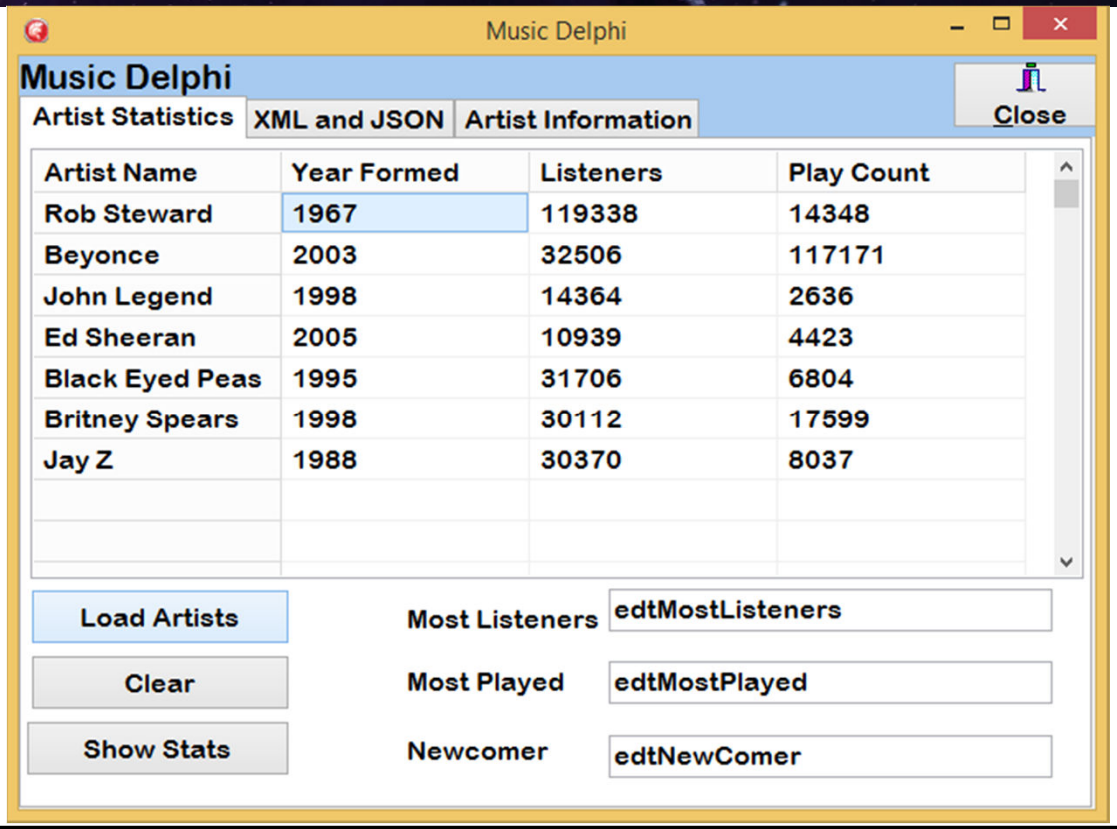

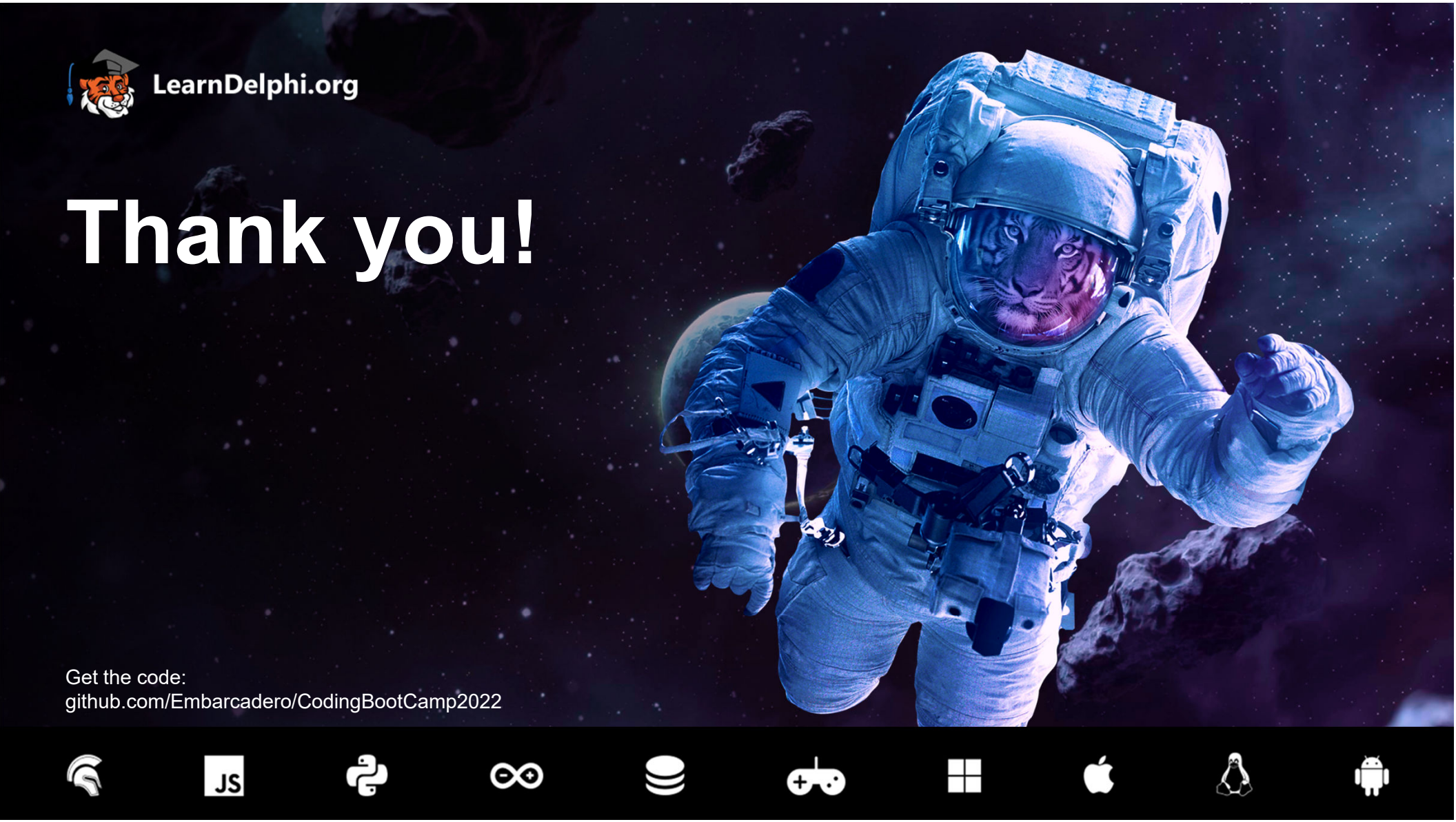
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Thank you!
Get the code:
github.com/Embarcadero/CodingBootCamp2022
JS